



U.S. PATENTS

REC-3/50
MAY 6 - 2003
TC 1000

P.C.

U.S. PATENT NUMBER	INVENTOR(S)
5,393,536	Brandt, et al.
5,783,125	Bastone, et al.
5,827,462	Brandt, et al.
5,836,128	Groh, et al.
5,866,264	Zehner, et al.
6,035,588	Zehner, et al.
6,103,791	Zehner
6,117,924	Brandt
6,131,355	Groh, et al.
6,153,293	Dahl, et al.
6,180,257	Brandt, et al.
6,210,616	Suwanda
6,248,813	Zehner
6,272,808	Groh, et al.
6,284,098	Jacobsen
6,295,778	Burt
6,337,138	Zehner, et al.
6,341,458	Burt
6,344,504	Zehner, et al.
6,358,585	Wolff
6,360,508	Pelfrey, et al.
6,409,952	Hacker, et al.
6,423,257	Stobart, et al.
6,453,630	Buhrts, et al.
6,464,913	Komey, Jr.
6,511,757	Brandt, et al.

P.e

PUBLISHED U.S. APPLICATIONS

P.e

PUB. APPLICATION NO.	INVENTOR(S)
2001/0019749	Godavarti et al.

Crech 12/03



2001/0051242	Godavarti et al.
2001/0051243	Godavarti et al.
2002/0015820	Puppín
2002/0038684	Puppín
2002/0040557	Felton
2002/0192401	Matsumoto, et al.
2002/0192431	Edgman

MAY 6 - 2003

RECEIVED

FOREIGN PATENT DOCUMENTS

COUNTRY	PATENT NO.
NONE	

Adh

12/02

OTHER DOCUMENTS

1. None.

A copy of each document is included for the express purpose of providing the Patent and Trademark Office with ample opportunity to evaluate the same and arrive at an independent assessment of the materiality of each, if any, to the examination of the above-identified application.

In reviewing the enclosed copies of the above documents, the Examiner is instructed to ignore any underscoring or highlighting which may have been done because such markings may or may not have any relationship to the subject matter of the above-identified application. The copies being submitted with this Information Disclosure Statement are the best copies available at this time.



FORM PTO-1449 TO BE FILED WITH
INFORMATION DISCLOSURE STATEMENT

RECEIVED
MAY 6 - 2003
TC 1700

U.S. Department of Commerce
Patent and Trademark Office

Atty. Docket No. CPL1538-209

Serial No. 10/045,519

SUPPLEMENTAL
INFORMATION
DISCLOSURE STATEMENT
BY APPLICANTS

Frechette
Applicant

October 26, 2001
Filing Date

1775
Group Art Unit

Cain, Edward J.
Examiner's name

U.S. PATENT DOCUMENTS

Examiner's Initial	Document Number	Date	Name	Class/Sub- class
C.C.	5,393,536	2/1995	Brandt, et al.	425/112
	5,783,125	7/1998	Bastone, et al.	264/45.3
	5,827,462	10/1998	Brandt, et al.	264/179
	5,836,128	11/1998	Groh, et al.	52/580
	5,866,264	2/1999	Zehner, et al.	428/481
	6,035,588	5/2000	Zehner, et al.	52/98
	6,103,791	8/2000	Zehner	524/13
	6,117,924	9/2000	Brandt	524/13
	6,131,355	10/2000	Groh, et al.	52/592.1
	6,153,293	11/2000	Dahl, et al.	428/310.5
	6,180,257	1/2001	Brandt, et al.	428/532
	6,210,616	4/2001	Suwanda	264/151
	6,248,813	6/2001	Zehner	524/13
	6,272,808	8/2001	Groh, et al.	52/592.1
	6,284,098	9/2001	Jacobsen	162/150
	6,295,778	10/2001	Burt	52/592.6
	6,337,138	1/2002	Zehner	428/511
	6,341,458	1/2002	Burt	52/287.1
	6,344,504	2/2002	Zehner, et al.	524/14
	6,358,585	3/2002	Wolff	428/36.6
C.C.	6,360,508	3/2002	Pelfrey, et al.	52/520

Creel 12/02¹



P.C.	6,409,952	6/2002	Hacker, et al.	264/171.1
	6,423,257	7/2002	Stobart, et al.	264/145
	6,453,630	9/2002	Buhrts, et al.	52/177
	6,464,913	10/2002	Korney, Jr.	264/102
	6,511,757	1/2003	Brandt, et al.	428/532

PUBLISHED U.S. APPLICATIONS

Examiner's Initial	Document Number	Date	Name	Class/Sub-class
P.C.	2001/0019749	4/2001	Godavarti et al.	428/34.2
	2001/0051242	6/2001	Godavarti et al.	428/36.9
	2001/0051243	6/2001	Godavarti et al.	428/36.9
	2002/0015820	8/2001	Puppin	428/121
	2002/0038684	10/2001	Puppin	156/88
	2002/0040557	9/2001	Felton	52/309.13
	2002/0192401	1/2001	Matsumoto, et al.	428/15
P.C.	2002/0192431	6/2001	Edgman	428/181

FOREIGN PATENT DOCUMENTS

Examiner's Initial	Document Number	Date	Country/Name	Translation? Yes/no
	NONE			

OTHER DOCUMENTS

1. None.

Examiner <i>Orrell</i>	Date Considered <i>12/02</i>
------------------------	------------------------------

Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



U.S. PATENTS

RECEIVED
JUN 4 2002
TC 1700

U.S. PATENT NUMBER	INVENTOR(S)
2,188,396	Semon
2,489,373	Gilman
2,519,442	Delorme et al.
2,558,378	Petry
2,635,976	Meiler et al.
2,680,102	Becher
2,789,903	Lukman et al.
2,935,763	Newman et al.
3,287,480	Wechsler et al.
3,308,218	Etal
3,309,444	Schueler
3,492,388	Inglin-Knüsel
3,493,527	Schueler
3,562,373	Logrippo
3,645,939	Gaylord
3,671,615	Price
3,864,201	Susuki et al.
3,867,493	Seki
3,878,143	Baumann et al.
3,879,505	Boutillier et al.
3,888,810	Shinomura
3,899,559	Johnanson et al.
3,922,328	Johnson
3,931,384	Forquer et al.
3,943,079	Hamed
3,954,555	Kole et al.
3,956,541	Pringle
3,956,555	McKean
3,969,459	Fremont et al.
4,005,162	Bucking
4,012,348	Chelland et al.
4,016,232	Pringle
4,016,233	Pringle
4,018,722	Baker

Carl 12/02 2



RECEIVED
JUN 4 2002
TC 1700

4,029,831	Dauheimer
4,045,603	Smith
4,056,591	Goettler et al.
4,058,580	Flanders
4,071,479	Broyde et al.
4,071,494	Gaylord
4,097,648	Pringle
4,102,106	Golder et al.
4,107,110	Lachowicz et al.
4,115,497	Halmø et al.
4,145,389	Smith
4,157,415	Lindenberg
4,168,251	Schinzal et al.
4,178,411	Cole et al.
4,181,764	Totten
4,187,352	Klobbie
4,191,798	Schumacher et al.
4,203,876	Dereppe et al.
4,228,116	Colombo et al.
4,239,679	Rolls et al.
4,241,133	Lund et al.
4,244,903	Schnause
4,248,743	Goettler
4,248,820	Haataja
4,250,222	Mavel et al.
4,263,184	Leo et al.
4,263,196	Schumacher et al.
4,272,577	Lyng
4,273,688	Porzel et al.
4,277,428	Luck et al.
4,290,988	Nopper et al.
4,303,019	Haataja et al.
4,305,901	Prince et al.
4,317,765	Gaylord
4,323,625	Coran et al.
4,376,144	Goettler
4,382,108	Carroll et al.

Q-1

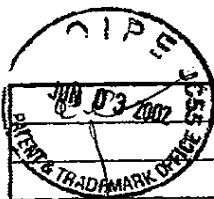
Crish 12³ for

Stamp: OIPE JUN 03 2002

Stamp: REC JUN 11 2002

4,382,758	Nopper et al.
4,393,020	Li et al.
4,414,267	Coran et al.
4,420,351	Lussi et al.
4,430,468	Schumacher
4,440,708	Haataja et al.
4,480,061	Coughlin et al.
4,481,701	Hewitt
4,491,553	Yamada et al.
4,503,115	Hemels et al.
4,505,869	Nishibori
4,506,037	Suzuki et al.
4,508,595	Gåslund
4,562,218	Fornadel et al.
4,594,372	Natov et al.
4,597,928	Terentiev et al.
4,610,900	Nishibori
4,645,631	Hegenstaller et al.
4,659,754	Edwards et al.
4,663,225	Farley et al.
4,687,793	Motegi et al.
4,717,742	Beshay
4,734,236	Davis
4,737,532	Fujita et al.
4,746,688	Bistak, et al.
4,769,109	Tellvik et al.
4,769,274	Tellvik et al.
4,783,493	Motegi et al.
4,789,604	van der Hoeven
4,790,966	Sandberg et al.
4,791,020	Kokta
4,801,495	van der Hoeven
4,818,604	Tock
4,820,749	Beshay
4,851,458	Hopperdietzel
4,865,788	Davis
4,889,673	Takimoto

Carl 12/02



RECEIVED
JUN 4 2002
TC 1706

4,894,192	Warych
4,915,764	Miani
4,927,572	van der Hoeven
4,927,579	Moore
4,935,182	Ehner et al.
4,960,548	Ikedo et al.
4,968,463	Levasseur
4,973,440	Tamura et al.
4,978,489	Radvan et al.
4,988,478	Held
5,002,713	Palardy et al.
5,008,310	Beshay
5,009,586	Pallmann
5,049,334	Bach
5,057,167	Gersbeck
5,064,592	Ueda et al.
5,075,057	Hoedl
5,075,359	Castagna et al.
5,078,937	Eela
5,082,605	Brooks et al.
5,087,400	Theuveny
5,088,910	Goforth et al.
5,096,046	Goforth et al.
5,096,406	Brooks et al.
5,120,776	Raj et al.
5,153,241	Beshay
5,194,461	Bergquist et al.
5,219,634	Aufderhaar
5,272,000	Chenoweth et al.
5,276,082	Forry et al.
5,288,772	Hon
5,302,634	Mushovic
5,369,147	Mushovic
5,406,768	Giuseppe et al.
5,422,170	Iwata et al.
5,435,954	Wold
5,441,801	Deaner, et al.

Oral

12/02



5,458,834	Faber et al.
5,474,722	Woodhams
5,480,602	Nagaich
5,486,553	Deaner et al.
5,497,594	Giuseppe et al.
5,516,472	Laver
5,518,677	Deaner et al.
5,532,065	Gübitz
5,537,789	Minke, et al.
5,539,027	Deaner et al.
5,576,374	Betso et al.
5,585,155	Heikkilä et al.
5,593,625	Riebel et al.
5,695,874	Deaner, et al.
5,773,138	Seethamraju, et al.
5,827,607	Deaner, et al.
5,882,564	Puppin
5,932,334	Deaner, et al.
5,948,505	Puppin
5,948,524	Seethamraju, et al.
5,981,067	Seethamraju, et al.
5,985,429	Plummer, et al.
6,004,668	Deaner, et al.
6,007,656	Heikkilä, et al.
6,011,091	Zehner
6,015,611	Deaner, et al.
6,015,612	Deaner, et al.
6,054,207	Finley
6,106,944	Heikkilä, et al.
6,122,877	Hendrickson, et al.
6,210,792	Seethamraju, et al.
6,265,037	Godavarti, et al.
6,280,667	Koenig et al.
6,342,172	Finley
6,346,160	Puppin
6,357,197	Serino et al.

Cur *n/for*
6



FOREIGN PATENT DOCUMENTS

COUNTRY	PATENT NO.
European Patent	EP0269470
European Patent	EP0586211
European Patent	EP0586212
European Patent	EP0586213
European Patent	EP0747419
French Patent	FR2270311
French Patent	FR2365017
French Patent	FR2445885
French Patent	FR2564374
GB Patent	GB1443194
GB Patent	GB2036148
GB Patent	GB2104903
GB Patent	GB2171953
GB Patent	GB2186655
German Patent	DE2042176
German Patent	DE3801574
German Patent	DE4221070
German Patent	DE4033849
WO	WO 90/08020

OTHER DOCUMENTS

Bendtsen et al., Mechanical Properties of Wood, pages 4-2 to 4-44.
Bibliography of Solid Phase Extrusion, pages 187-195.
Brzaskowski et al., Air-Lubricated Die for Extrusion of Rubber Compounds, Rubber Chemistry and Technology, Vol. 60, page 945-956.
Collier et al., High Strength Extrudates by Melt Transformation Coextrusion, ANTEC, 1987, pages 497-502.
Collier et al., Streamlined Dies and Profile Extrusion, ANTEC, 1987, pages 203-206.
Company News, Plastics Industry News, May 1994, pages 70-71.
Dalvåg et al., The Efficiency of Cellulosic Fillers in Common Thermoplastics. Part II. Filling with Processing Aids and Coupling Agents, 1985, vol. 11, pages 9-38.
Fiberloc Polymer Composites, B.F. Goodrich, Geon Vinyl Division, section 1, pages 2-15.
Fill Thermoplastics with Wood, Modern Plastics, May 1974, pages 54-55.
Fillers for Thermoplastics: Beyond Resin Stretching, Modern Plastics International, October 1976, pages 12-15.
From Sweden: Extruded Interior Trim Made of PVC and Wood Flour, Plastic Building Construction, vol. 9 no. 5, 1986, pages 5-6.
Henrici-Olive et al., Integral/Structural Polymer Foams, Technology, Properties and Applications, Springer-Verlag, pages 111-122.

Q. C.

7/12/05



- cc. Klason et al., The Efficiency of Cellulosic Fillers in Common Thermoplastics. Part 1. Filling without Processing Aids or Coupling Agents, Polymeric Materials, 1984, vol. 10, pages 159-187.
- Kokta et al., Composites of Poly(Vinyl Chloride) and Wood Fibers. Part II: Effect of Chemical Treatment, Polymer Composites, April 1990, pages 84-89.
- Kokta et al., Composites of Polyvinyl Chloride-Wood Fibers. I. Effect of Isocyanate as a Bonding Agent, Polym.-Plast. Technol. Eng., 1990, 29(1&2), pages 87-118.
- Kokta et al., Composites of Polyvinyl Chloride-Wood Fibers. III: Effect of Silane as Coupling Agent, Journal of Vinyl Technology, September 1990, pages 146-153.
- Kokta et al., Use of Grafted Wood Fibers in Thermoplastic Composites v. Polystyrene, Centre de recherche en pâtes et papiers, Université du Québec à Trois-Rivières, Canada.
- Kokta et al., Use of Wood Fibers in Thermoplastic Composites, Polymer Composites, October 1983, pages 229-232.
- Maldas et al., Composites of Polyvinyl Chloride-Wood Fibers: IV. Effect of the Nature of Fibers, Journal of Vinyl Technology, June 1989, pages 90-98.
- Maldas, et al., Improving Adhesion of Wood Fiber with Polystyrene by the Chemical Treatment of Fiber with a Coupling Agent and the Influence on the Mechanical Properties of Composites, Journal of Adhesion Science Technology, vol. 3 no. 7, pages 529-539 (1989)
- Myers et al., "Wood flour and polypropylene or high-density polyethylene composites: influence of maleated polypropylene concentration and extrusion temperature on properties", "Wood Fiber/Polymer Composites: Fundamental Concepts, Processes, and Material Options", pages 49-56.
- Myers et al., Bibliography: Composites from Plastics and Wood-Based Fillers, USDA Forest Products Laboratory, Madison, WI, pages 1-27 odds (1991).
- Myers et al., Effects of Composition and Polypropylene Melt Flow on Polypropylene-Waste Newspaper Composites, ANTEC, 1984, pages 602-604.
- Pornnimit et al., Extrusion of Self-Reinforced Polyethylene, Advances in Polymer Technology, Vol. 11, No. 2, pages 92 - 98.
- Raj et al., Use of Wood Fiber as Filler in Common Thermoplastics: Studies on Mechanical Properties, Science and Engineering of Composite Materials, vol. 1 no. 3, 1989, pages 85-98.
- Raj et al., Use of Wood Fibers in Thermoplastics. VII. The Effect of Coupling Agents in Polyethylene-Wood Fiber Composites, Journal of Applied Polymer Science, vol. 37, pages 1089-1103 (1989).
- Resin Stretching: Accent on Performance, Modern Plastic International, January 1974, pages 58-60.
- Rogalski et al., Poly(Vinyl-Chloride) Wood Fiber Composites, ANTEC, 1987, pages 1436-1441.
- Sonwood Outline, April, 1975.
- Sonwood: a new PVC wood-flour alloy for Extrusions and other Plastic Processing Techniques, Sonesson Plast AB, Malmo, Sweden.
- cc. Thomas et al., Wood Fibers for Reinforcing Fillers for Polyolefins, ANTEC, 1984, pages 687-689.

JUN 03 2002

PATENT & TRADEMARK OFFICE

Wood Filled PVC, <i>Plastics Industry News</i> , July 1996, page 6.
Woodhams et al., Wood Fibers for Reinforcing Fillers for Polyolefins, <i>Polymer Engineering and Science</i> , October 1984, pages 1166-1171.
Yam et al., Composites from Compounding Wood Fibers With Recycled High Density Polyethylene, <i>Polymer Engineering and Science</i> , mid-June 1990, pages 693-699, Vol. 30, No. 11.
Yuskova, et al., Interaction of Components in Poly(Vinyl Chloride) Filled in Polymetization, <i>Makroniol Chem., Macromol. Symp.</i> 29, 315-320 (1989).
Zadorecki et al., Future Prospects for Wood Cellulose as Reinforcement In Organic Polymer Composites, <i>Polymer Composites</i> , April 1989, pages 69-77.

A copy of each document is included for the express purpose of providing the Patent and Trademark Office with ample opportunity to evaluate the same and arrive at an independent assessment of the materiality of each, if any, to the examination of the above-identified application.

In reviewing the enclosed copies of the above documents, the Examiner is instructed to ignore any underscoring or highlighting which may have been done because such markings may or may not have any relationship to the subject matter of the above-identified application. The copies being submitted with this Information Disclosure Statement are the best copies available at this time.

The identification of any document herein is not intended to be, and should not be understood as being, an admission that each such document, in fact, constitutes "prior art" within the meaning of applicable law.